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TI Preparation of N-methyl-2-pyrrolidone from .gamma.-butyrolactone and monomethylamine

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AB The title compd. is prepd. by reaction of .gamma.-butyrolactone with 1.03-1.50 mol equiv. MeNH₂ in the presence of 1.0-2.9 mol equiv. H₂O at 250-300.degree.. .gamma.-Butyrolactone (3 mol) was treated with 3 mol H₂O and 3.3 mol MeNH₂ at 280.degree. for 1 h to give 99.9% N-methyl-2-pyrrolidone. An amine mixt. contg. MeNH₂ 39.2, Me₂NH 0.67, and Me₃N 0.35 wt.% was recovered from the reaction mixt. and recycled to the reaction.

IC ICM C07D207-267

DT Patent

LA Japanese